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ning of each regular issue of the PCT Gazette.

(54) Title: PHARMACEUTICAL COMPOSITIONS, METHODS OF FORMULATION THEREOF AND METHODS OF USE  
THEREOF

(57) Abstract: A pharmaceutical composition including a physiologically effective amount of a mixture of conjugated fatty acid(s) and polyphenol(s) is disclosed. Methods of formulation are further disclosed. Trienoic acids such as punicic acid are employed in exceptionally preferred embodiments of the invention. The invention has utility in management/treatment of a wide range of clinical conditions including, but not limited to, obesity, diabetes, cancer and heart disease.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL05/00332

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/7048, 31/353, 35/78  
US CL : 514/27; 424/725-779

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 514/27; 424/725-779

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/077930 A1 (Schmiedel et al.), 23 Sept 2003 (23.09.2003), english abstract only	1,14,15,27
X --- y	Schubert, SY, et al. ("Antioxidant and eicosanoid enzyme inhibition properties of pomegranate seed oil and fermented juice flavonoids," 1999 J Ethnopharmacology 66: pages 11-17)	1-5,7,10, 12-14, 19, 21, 23 ----- 1-24
Y	Boukharta M, et al. ("Biodistribution of ellagic acid and dose-related inhibition of lung tumorigenesis in A/J mice," Nutr Cancer. 1992; 18(2):181-9 [abstract only])	1-5,7,10,12-14, 19, 21, 23
Y	Harborne & Williams ("Advances in flavonoid research since 1992," Phytochemistry 55(6) Nov 2000: p. 481-504)	1-24
Y	Nair HK, et al., "Inhibition of prostate cancer cell colony formation by the flavonoid quercetin correlates with modulation of specific regulatory genes," Clin Diagn Lab Immunol 2004 Jan; 11(1):63-9.	22-24
Y	Al-Awwadi N, et al. ("Antidiabetic activity of red wine polyphenolic extract, ethanol, or both in Streptozotocin-treated rats," 27 Jan 2004 J Agric Chem 52(4):1008-16).	16-19



Further documents are listed in the continuation of Box C.



See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Han LK, et al, "Anti-obesity action of Salix matsudana leaves (Part 2). Isolation of anti-obesity effectors from polyphenol fractions of Salix matsudana." Phytother Res. 2003 Dec;17(10):1195-8.	25,26

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Continuation of B. FIELDS SEARCHED Item 3:

WEST: punicic acid, conjugated fatty acids, flavonol, polyphenol

PUBMED: polyphenol, flavonoid, diabetes, prostate cancer, quercetin, caffeic acid, ellagic acid